

ROMA: River Observatories for Management Applications

GIS Analysis of Consequences of Land Cover and Land-use Change

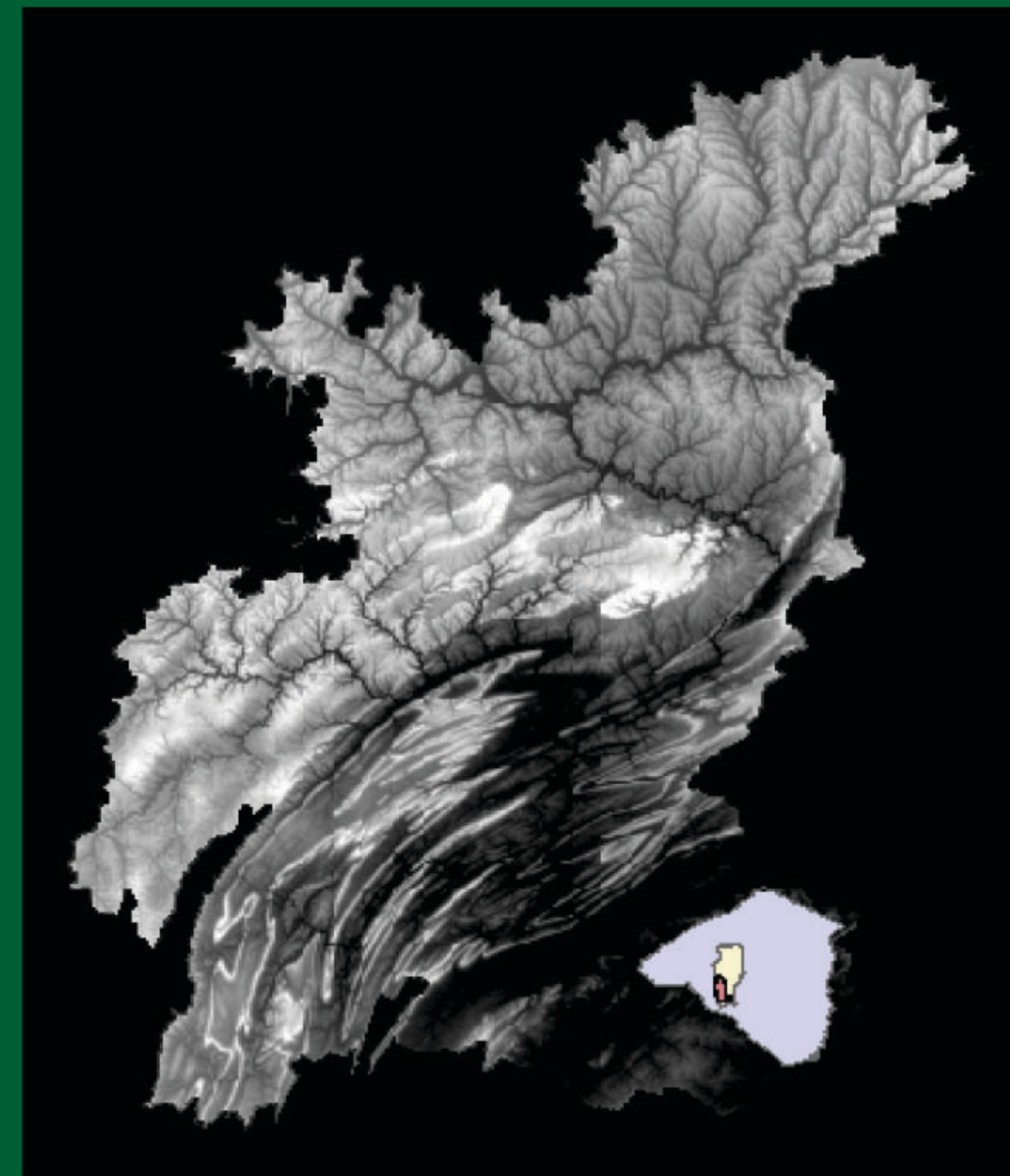
Robert G. Clark, Milan Pavich, Thomas Moreland, Steven Kambly, and Roger Barlow

Has Urbanization Contributed to Sediment Mobilization ?



Little Conestoga

Different Scale Study Areas

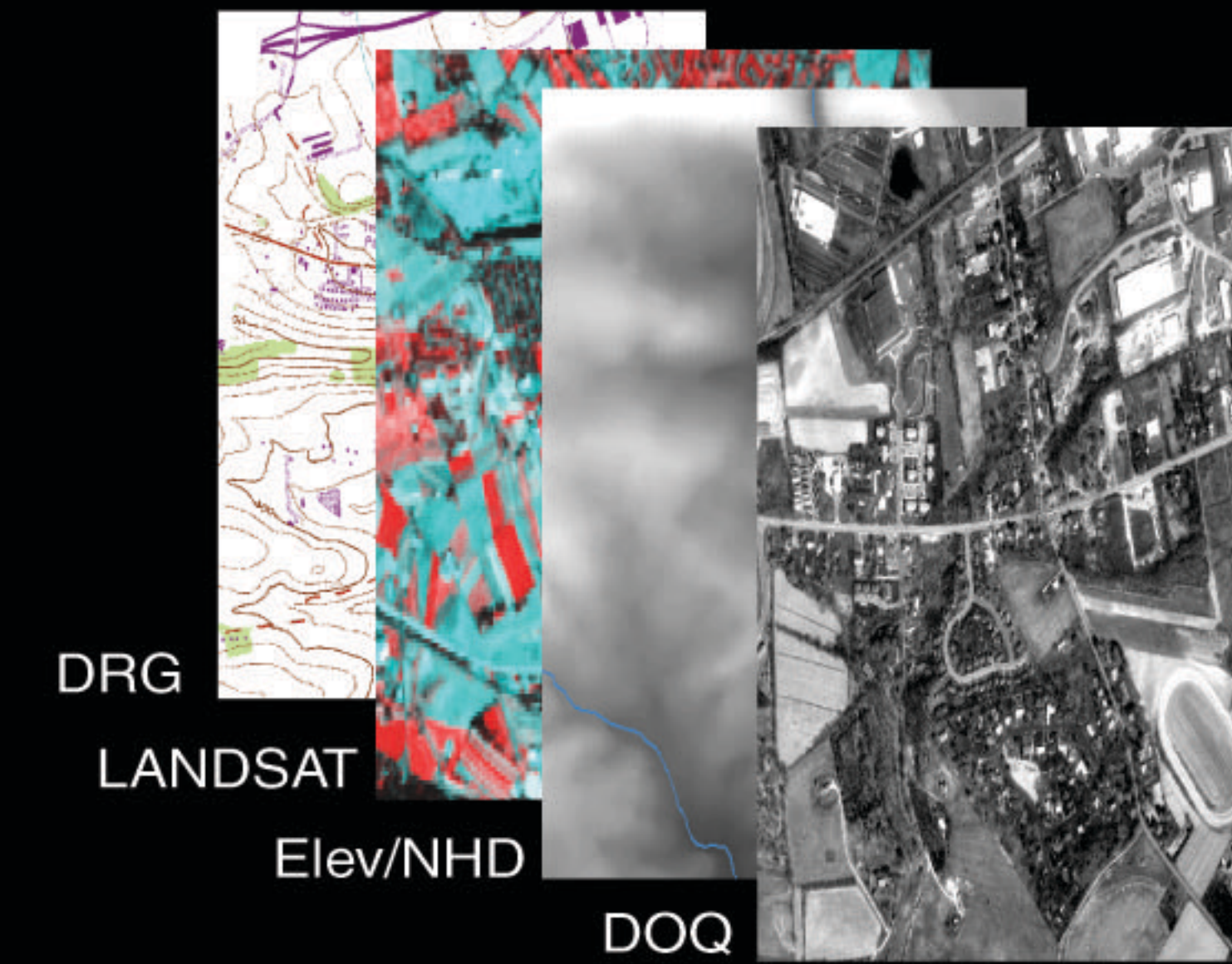


Database

Data Sources

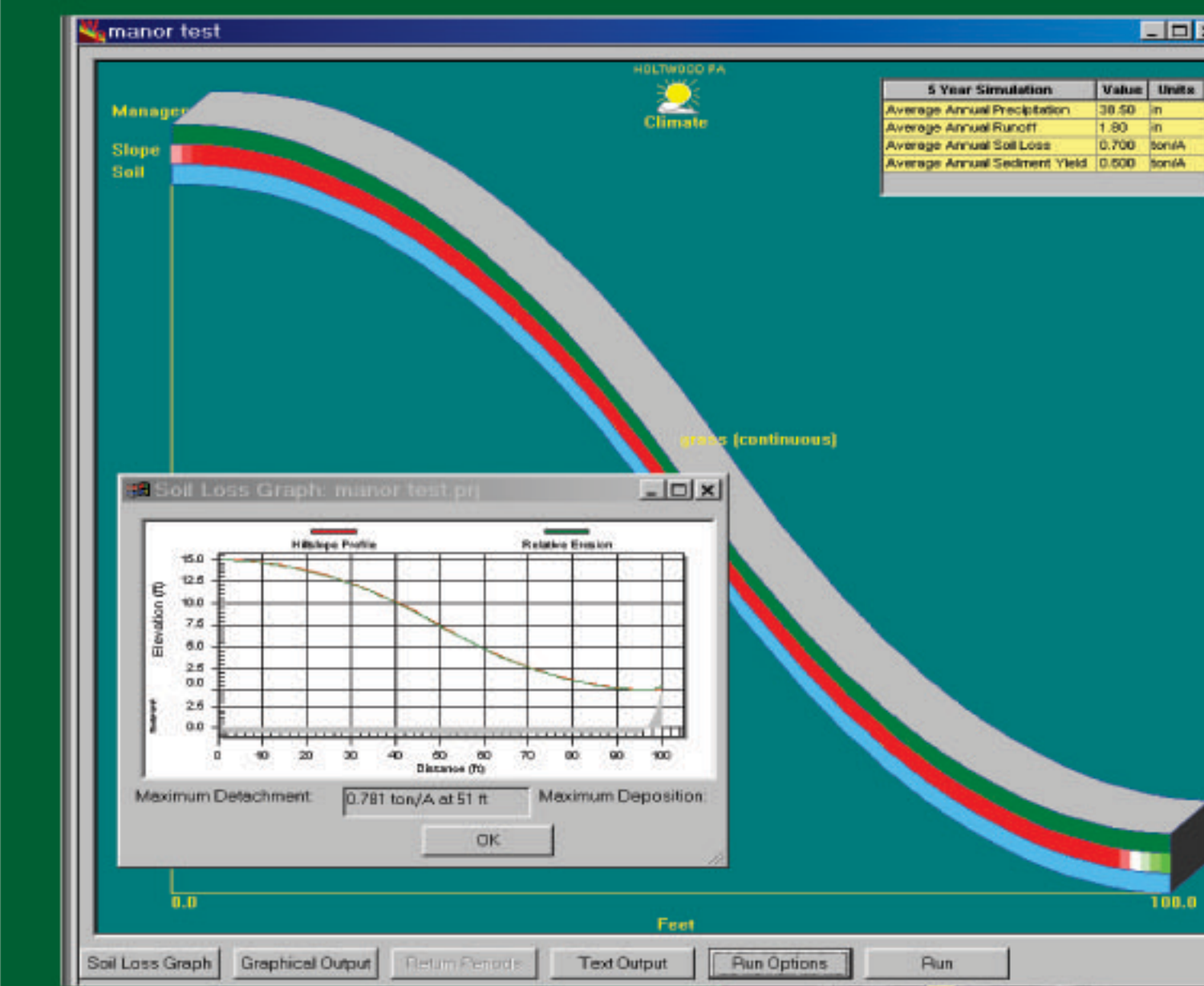
USGS
PASDA
NRCS

Example Datasets

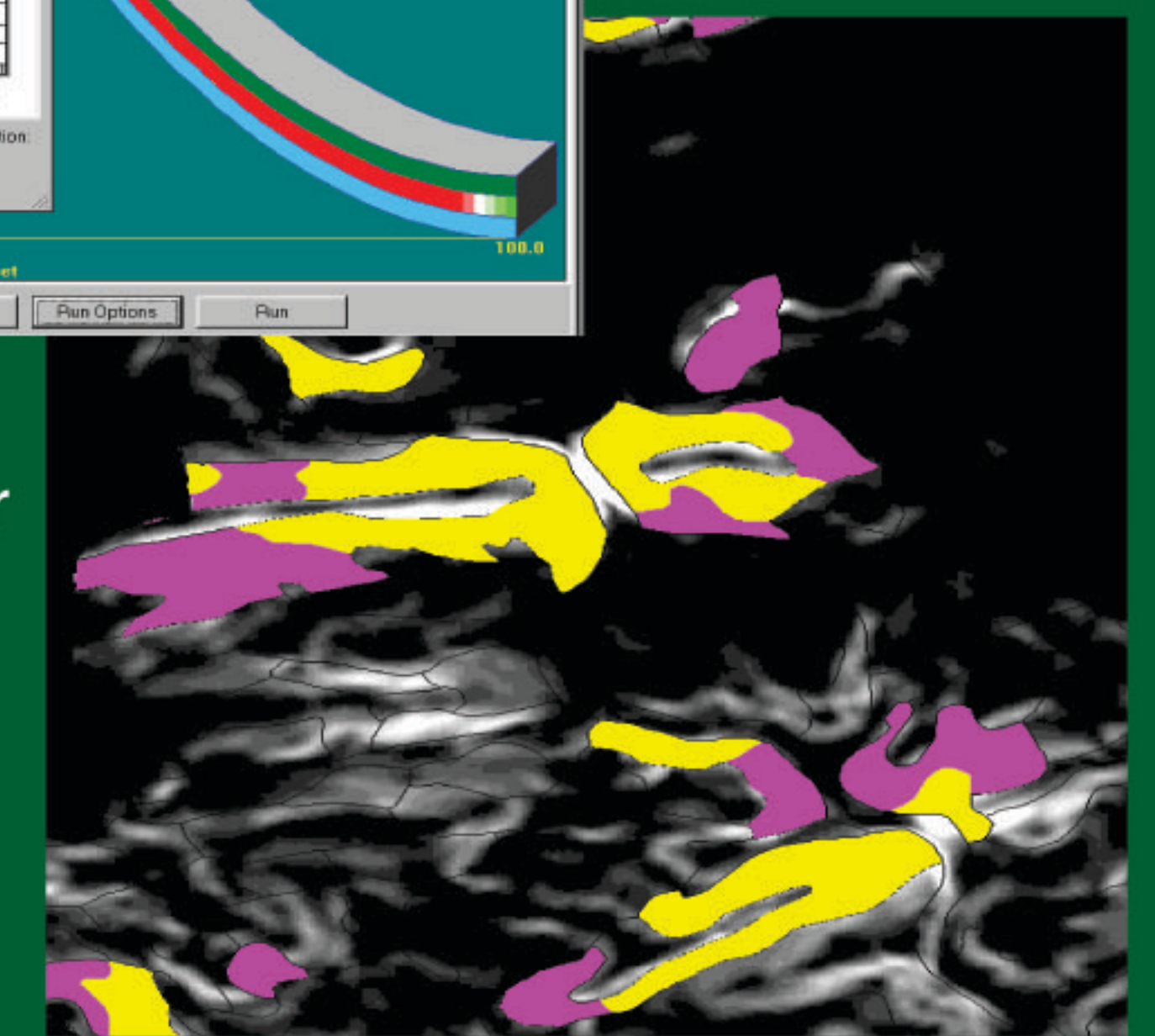


USGS Internal Network

Sediment Transport Modeling

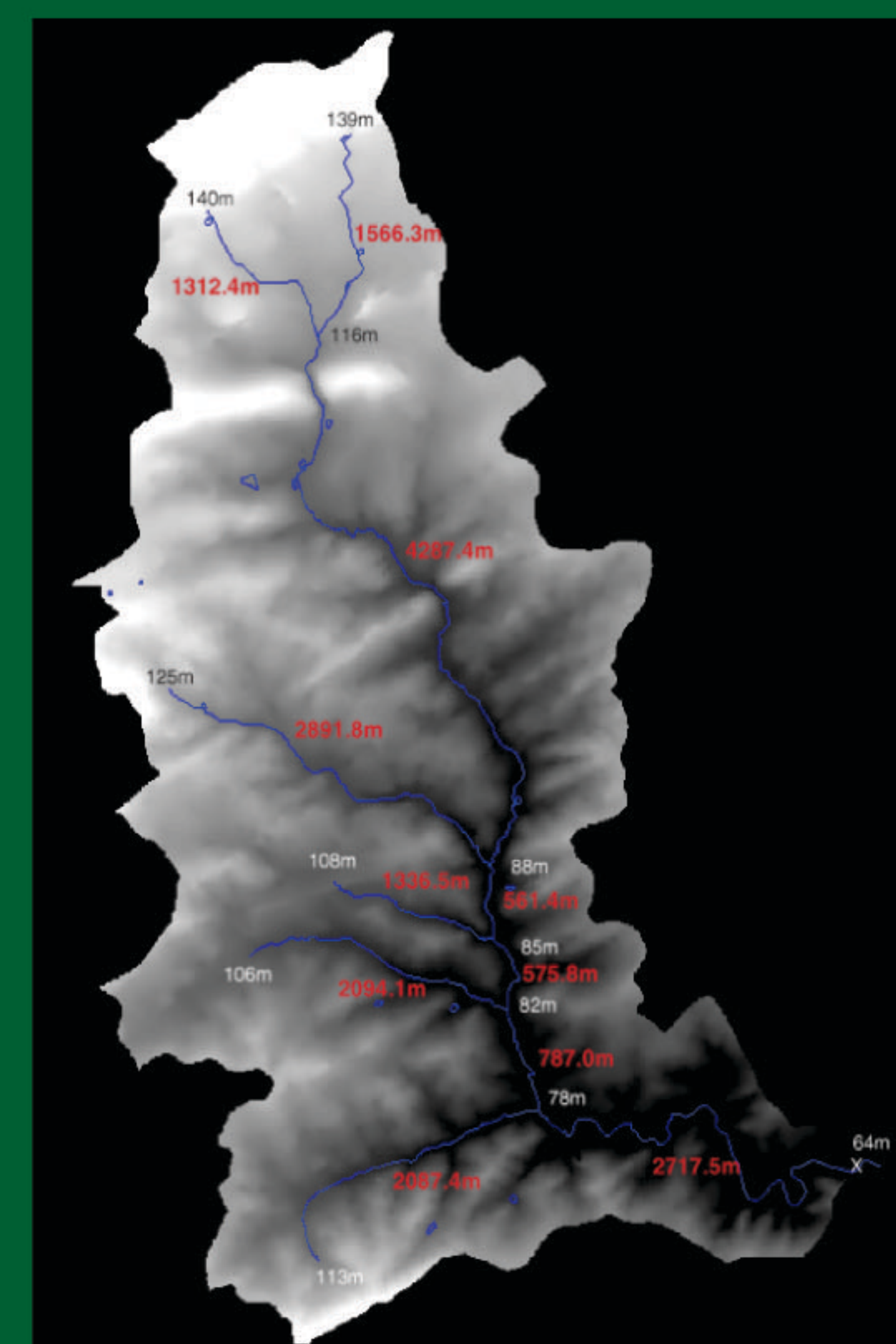
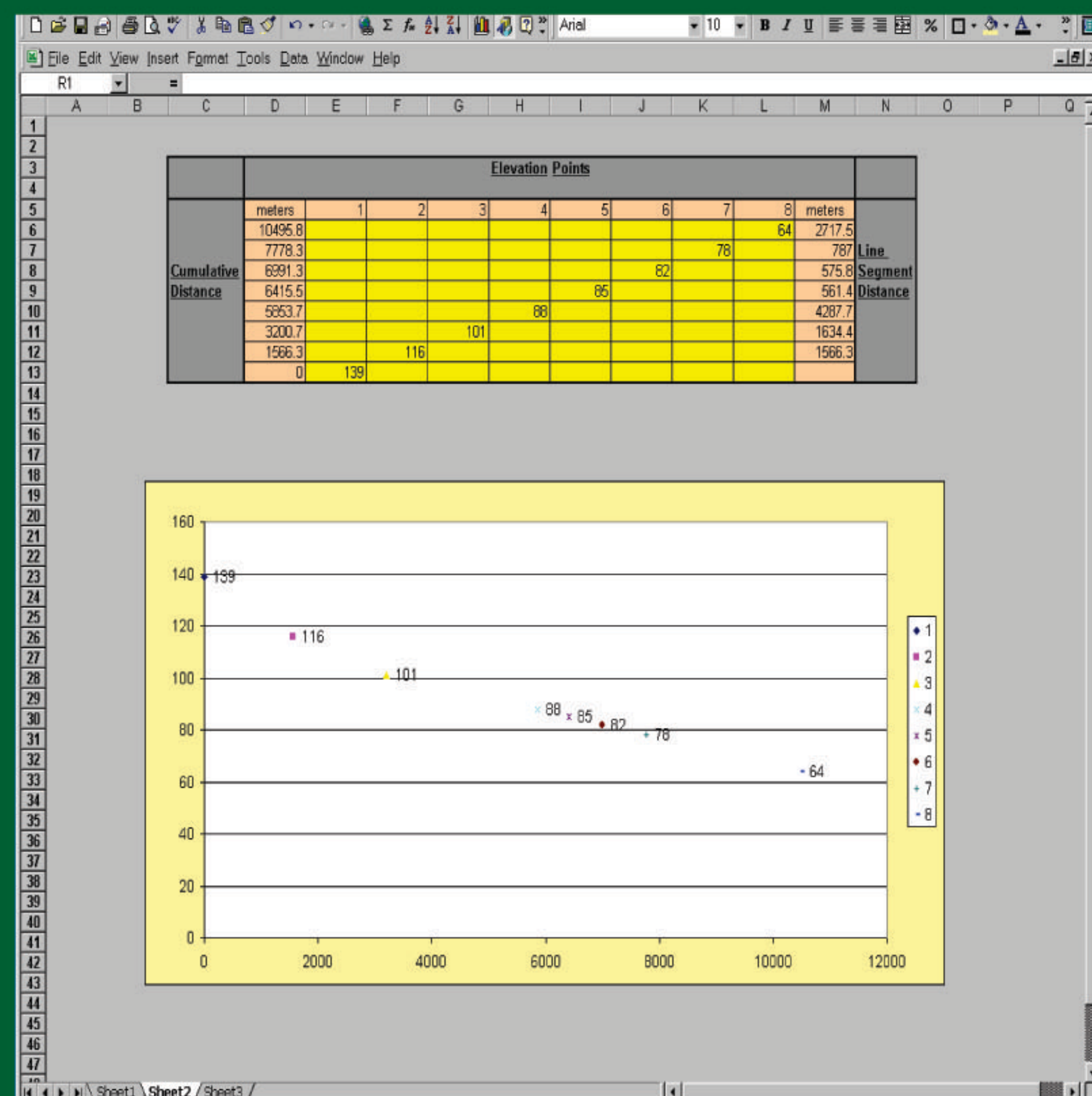


Soils Erosion and Deposition Modeler



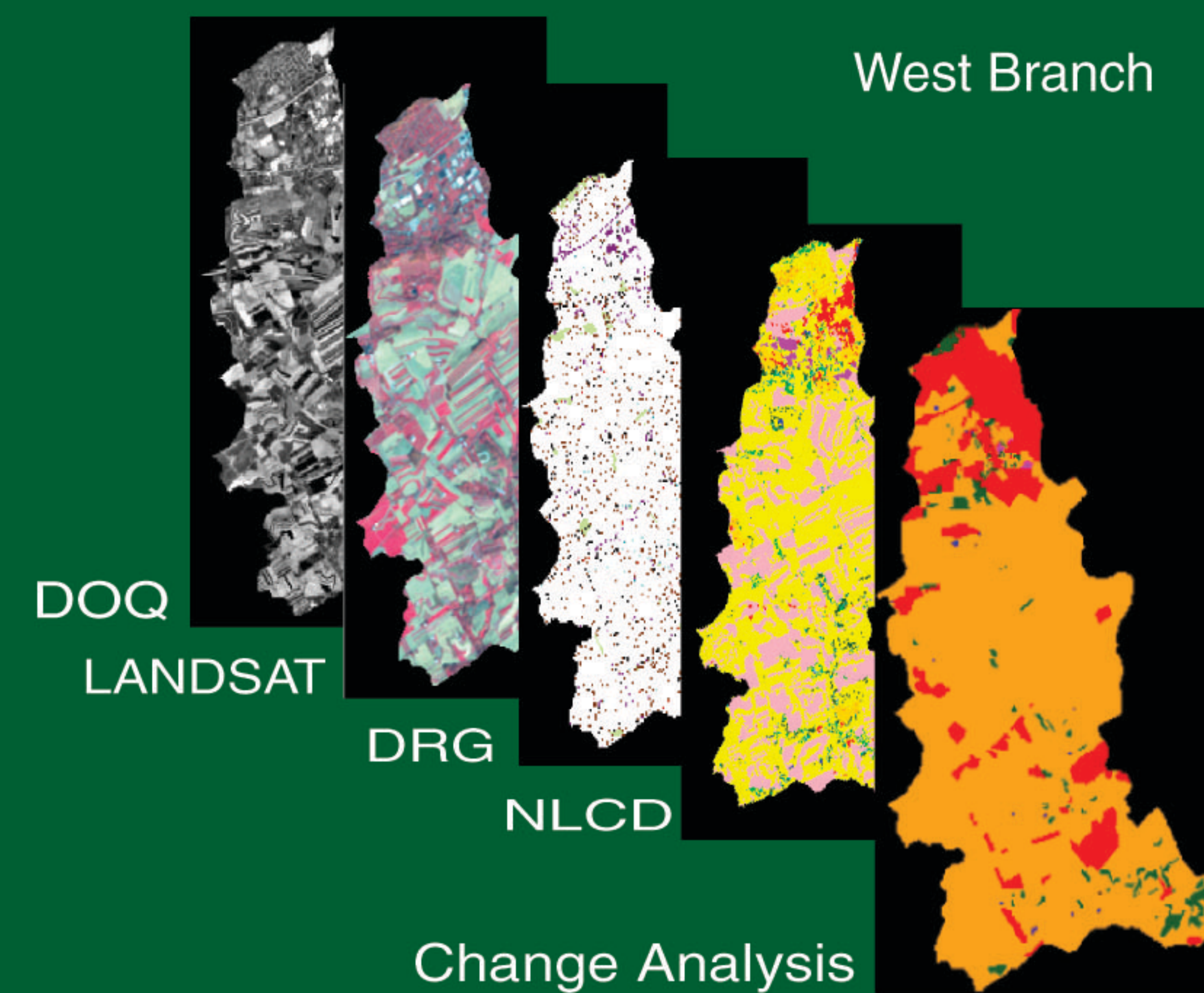
Slope/Soils GIS

Stream Profile Analysis



Land Cover Trends Analysis

(Modified Trends Methods)



Land-use Analysis

County data merged with National data

